

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#3

Applicant(s): Haixiang Liang

Title: CATEGORIZATION OF IMPAIRMENTS AFFECTING A
COMMUNICATION CHANNEL

Application No.: 09/627,572

Filed: July 28, 2000

Examiner: (not yet assigned)

Group Art Unit: 2734

Atty. Docket No.: 1005-0017

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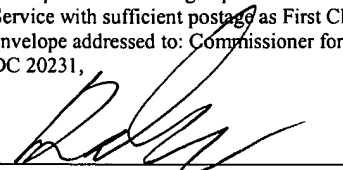
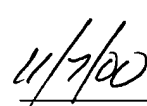
November 7, 2000

COMMISSIONER FOR PATENTS
Washington, DC 20231**INFORMATION DISCLOSURE STATEMENT**

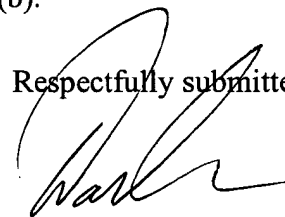
Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, Applicant(s) wish to bring the documents identified in the attached form PTO 1449 to the Examiner's attention in the above-captioned application. Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described above; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

| CERTIFICATE OF MAILING | |
|---|---|
| I hereby certify that, on the date shown below, this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, | |
|  David W. O'Brien |  Date |

Respectfully submitted,

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| U.S. Department of Commerce, Patent and Trademark Office | | | | | Attorney Docket No.: 1005-0017 | | | |
|--|----|---|------------------------|-----------------|----------------------------------|----------|----------------------------|----|
| | | | | | Application No.: 09/627,572 | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | | Applicant(s): Haixiang Liang | | | |
| (Use several sheets if necessary) | | | | | Filing Date: July 28, 2000 | | | |
| | | | | | Group Art Unit: 2734 | | | |
| | | | | | Date Submitted: November 7, 2000 | | | |
| U.S. Patent Documents | | | | | | | | |
| *Examiner Initial | | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate | |
| | AA | 6,118,813 | Sep. 12, 2000 | Lai | 375 | 231 | | |
| | AB | 6,115,395 | Sep. 5, 2000 | Norrell et al. | 370 | 523 | | |
| | AC | 6,108,354 | Aug. 22, 2000 | Scull et al. | 370 | 523 | | |
| | AD | 6,104,730 | Aug. 15, 2000 | Marks | 370 | 523 | | |
| | AE | 5,999,109 | Dec. 7, 1999 | Norrell et al. | 341 | 58 | | |
| | AF | 5,970,103 | Oct. 19, 1999 | Townshend | 375 | 340 | | |
| | AG | 5,875,229 | Feb. 23, 1999 | Eyuboglu et al. | 379 | 1 | | |
| | AH | 5,859,872 | Jan. 12, 1999 | Townshend | 375 | 242 | | |
| | AI | 5,835,538 | Nov. 10, 1998 | Townshend | 375 | 295 | | |
| | AJ | 5,809,075 | Sep. 15, 1998 | Townshend | 375 | 254 | | |
| | AK | 5,801,695 | Sep. 1, 1998 | Townshend | 375 | 340 | | |
| Foreign Patent Documents | | | | | | | | |
| | | | | | | | Translation | |
| | | Document | Date | Country | Class | Subclass | Yes | No |
| | AL | | | | | | | |
| | AM | | | | | | | |
| | AN | | | | | | | |
| | AO | | | | | | | |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
| | AP | PN 3857 Draft 15, "North American Telephone Network Transmission Model for Evaluating Analog Client and Digitally Connected Server Modems," "Telecommunications Industry Association Standard Draft, May 2000, pp i-97. | | | | | | |
| | AQ | "A Digital Modem and Analogue Modem Pair for Use on the Public Switched Telephone Network (PSTN) at Data Signalling Rates of up to 56 000 Bit/s Downstream and up to 33,600 Bit/s Upstream," Series V: Data Communication Over the Telephone Network, Simultaneous transmission of data and other signals, ITU-T, V.90, Sept. 1998, 51 pages. | | | | | | |
| | AR | U.S. Pat. App. No. 09/447,142, entitled "Deterministic Distortion Insensitive Adaptive Receiver Using Decision Updating," filed Nov. 23, 1999 by inventor Mark Gonikberg, 28 pages. | | | | | | |
| | AS | U.S. Pat. App. No. 09/627,571, entitled, "An Impairment Sensitive Selection of Constellation Points for Communication Across a Channel," filed July 28, 2000 by inventor Haixiang Liang, 53 pages. | | | | | | |
| | AT | U.S. Pat. App. No. 09/627,573, entitled, "Impairment Compensation Sequence for Communication," filed July 28, 2000 by inventor Haixiang Liang, 51 pages. | | | | | | |
| Examiner | | | Date Considered | | | | | |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p> | | | | | | | | |